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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/549,259	03/15/2007	Michael Anthony Pugel	PU040064	1726
24498 7590 05/11/2010 Robert D. Shedd, Patent Operations THOMSON Licensing LLC P.O. Box 5312			EXAMINER	
			SALCE, JASON P	
Princeton, NJ 0	8543-5312		ART UNIT	PAPER NUMBER
			2421	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/549,259	PUGEL ET AL.				
Office Action Summary	Examiner	Art Unit				
	Jason P. Salce	2421				
The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address				
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>02 Fe</u>	ebruarv 2010.					
	action is non-final.					
·						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-30</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-30</u> is/are rejected.						
7) Claim(s) is/are objected to.	7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10)☐ The drawing(s) filed on is/are: a)☐ acce	10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is obj	jected to. See 37 CFR 1.121(d).				
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.						
See the attached detailed Office action for a list of the Certified copies flot received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate				
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5)  Notice of Informal P 6)  Other:	atent Application				

#### **DETAILED ACTION**

#### Information Disclosure Statement

The information disclosure statements (IDS) submitted on 2/12/2010 and 4/16/2010 are in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statements have been considered by the examiner.

### Response to Arguments

Applicant's arguments with respect to claims 1-30 have been considered but are moot in view of the new ground(s) of rejection.

In regards to the double patenting rejection, Applicant is reminded that the double patenting rejection has been made on the basis of "obvious-type nonstatutory double patenting" (see In re Goodman 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993)) not statutory double patenting, which would require the claims of the instant application and the other patent application to be identical. The Examiner notes that the claims in the instant application are broader than the claims in the co-pending patent application 10/548,926. Even with the addition of the claim limitation "dynamically" in the independent claims, claim 8 of the co-pending patent application specifically states how the system dynamically selects an available frequency for transmission of television signals, therefore the independent claims in conjunction with dependent claims 8, 17 and 26 of the instant application are still broader than the co-pending patent application claims. The double patenting rejection stands.

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### **Priority**

Acknowledgment is made of applicant's claim for foreign priority based on applications filed on 3/11/2003. The Examiner acknowledges the priority to the US documents as requested by Applicant.

# **Double Patenting**

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1-30 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-27 of copending Application No. 10/548,926. Although the conflicting claims are not identical,

they are not patentably distinct from each other because the claims are broader in scope.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Referring to claims 1-30 of the '259 instant application, see claims 1-27 of the '926 application.

# Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 3-5, 7-10, 12-14, 16-17, 22-26 and 28-30 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Ho (U.S. Patent No. 6,622,307) in view of Williams (U.S. Patent No. 6,493,873).

Referring to claim 1, Ho discloses processing means for receiving broadcast signals and processing said received signals to generate processed analog signals (see Figure 3 and Column 8, Lines 8-13 for converting received satellite broadcast

signals from satellite 120 and processing the broadcast signals into processed analog signals).

Ho also discloses receiving means for receiving a request signal from a device via a transmission medium connecting said apparatus and said device (note that Ho teaches three different types of communication between said apparatus/MIRD 102 and said device/remote control system 150-152 (power-line, RF wireless, and through an upstream channel of the cable used to transmit the television programming in the downstream direction), wherein the embodiment of Figure 12 teaches transmitting a request signal through the upstream channel from the remote control system to the IRD (see Column 14, Lines 47-51 and Column 15, Liners 50-67)), wherein said processed analog signals are provided to said device via said transmission medium responsive to said request signal (see Figure 3 and Column 8, Lines 13-31), further wherein said request signal specifies a desired processed analog signal by identifying a program (see again Column 14, Lines 47-51 and further note Column 8, Lines 37-44).

Ho also discloses a control means for detecting an available frequency band on said transmission medium, wherein said available frequency band is used to provide said processed analog signals to said device (see Column 9, Lines 12-26 and Lines 32-46 for providing the selected processed analog signals on the detected available frequency band), thereby causing said transmission medium to be shared between said processed analog signals and cable broadcast signals distributed over said transmission medium (see Column 9, Lines 32-46 for combining the processed

analog signal inserted into the vacant frequency band along with off-air and cable TV programming and further note Column 8, Lines 14-18 for the antenna 135 providing the broadcasted cable television programming signals).

Although Ho discloses detecting an available frequency band on said transmission medium, Ho does not describe the specific technique of how the available frequency band is detected and is therefore silent in teach dynamically detecting an available frequency on said transmission medium.

Williams discloses a system with multiple IRD devices (elements 53-60 in Figure 3) that are controlled by a control means 72 in Figure 3. Williams further discloses that the control means scans a plurality of frequency bands on said transmission medium to detect said available frequency bands to determine empty frequency spaces to insert television program received from satellite source 50-52 (see Figure 3 and Column 11, Lines 40-67). Therefore, since Williams discloses that the system automatically scans a plurality of frequency bands to locate an available frequency band, Williams teaches dynamically detecting an available frequency band on said transmission medium.

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art, to modify the MIRD unit, as taught by Ho, to utilize the automatic vacant channel scanning functionality, as taught by Williams, for the purpose of automating the vacant channel selection system, thereby preventing a video signal to be inserted into a predetermined set of assumed vacant channels, which may or may

not already have a selected video signal being transmitted on the predetermined vacant channel by another user in a different room.

Referring to claim 3, Ho discloses that said broadcast signals are transmitted from a satellite source (see Figure 3 and Column 8, Lines 8-13).

Referring to claim 4, Ho discloses that said broadcast signals are transmitted from a digital terrestrial source (see the rejection of claim 3 and note that the term digital terrestrial source is a broader term that encompasses a satellite source).

Referring to claim 7, Ho discloses that said processing means comprises a frontend processing means for extracting desired digital transport stream from said received signals responsive to said request signal (see microprocessor 153 in Figure 4A for selecting the signal requested by the user, which is indicated to the microprocessor 152 by signal decoder 178).

Referring to claim 8, Ho discloses all of the limitations of claim 1, as well as a digital to analog converting means for converting said digital signals to analog baseband signals (see NTSC encoder 172 in Figure 4A).

Ho further discloses modulating means for modulating said analog baseband signals to generate said processed analog signals (see RF Modulator 176 in Figure 4A).

Ho fails to teach an encoding means for encoding said desired digital transport stream with error correction data to generate encoded digital signals.

Williams discloses that the IRD (elements 53-60 in Figure 3) contains an encoder 60 that further comprises an R-S encoder, which inserts error correction data (see Column 14, Lines 2-9).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to modify the IRD, as taught by Ho, using the error correction data encoder, as taught by Williams, for the purpose of assuring that the signal transmitted from the video signal transmitter is properly received by the receiving device.

Referring to claim 9, Ho discloses that said receiving means comprises demodulating means for demodulating said request signal (see signal decoder 178 in Figure 4A).

Referring to claim 10, see the rejection of claim 1.

Referring to claim 12, see the rejection of claim 3.

Referring to claim 13, see the rejection of claim 4.

Referring to claim 14, see the rejection of claim 5.

Referring to claim 16, see the rejection of claim 8.

Referring to claim 17, see the rejection of claim 1 and note Figures 3 and 4A for the equivalent front-end processor, back-end processor and control means.

Referring to claim 20, see the rejection of claim 5.

Referring to claim 22, see the rejection of claims 1 and 7-8.

Referring to claim 23, see the rejection of claim 2.

Referring to claims 24-25, see the rejection of claims 3-4, respectively.

Referring to claim 26, see the rejection of claim 5.

Referring to claim 28, see the rejection of claims 1-2 and 6.

Referring to claim 29, see MIRD 102 in Figure 3, which is equivalent to the claimed gateway.

Referring to claim 30, see the rejection of claims 1 and 7-8.

Claims 2, 11 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ho (U.S. Patent No. 6,622,307) in view of Williams (U.S. Patent No. 6,493,873) in further view of Dinwiddie et al. (U.S. Patent No. 6,481,013).

Referring to claim 2, Ho and Williams discloses all of the limitations of claim 1, but only further teach the use of an RG-6 cable as the transmission medium and not an RG-59 cable (see Ho).

Dinwiddle discloses a similar system to Ho, where a local television distribution system uses existing cable running through a home to provide video signals (see Figure 1). Dinwiddle also discloses the use of RG-59 cable to transmit video within the local television distribution system (see Column 5, Lines 32-49), which was used in houses built in the 1970's and 1980's.

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art, to modify the RG-6 cable, as taught by Ho and Williams, and accommodate the use of RG-59 cable, as taught by Dinwiddle, for the purpose of allowing the system of Ho to be used in older houses built in the 1970's and 1980's, which already contain pre-existing RG-59 cable (**note Column 5, Lines 39-42 of Dinwiddle**).

Referring to claims 11 and 18, see the rejection of claim 2.

Claims 6, 15, 21 and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ho (U.S. Patent No. 6,622,307) in view of Williams (U.S. Patent No. 6,493,873) in further view of Ehreth (U.S. Patent No. 6,286,142).

Referring to claim 6, Ho and Williams discloses all of the limitations of claim 1, but fail to teach that said control means detects said available frequency band based on a user input which selects said available frequency band.

Ehreth discloses a control means that detects said available frequency band based on a user input which selects said available frequency band (see Column 4, Line 63 through Column 5, Line 5).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art, to modify the request transmitted from the client device, as taught by Ho, using the selectable upstream and downstream frequency band, as taught by Ehreth, for the purpose of ensuring that each remote site has an upstream frequency on which to transfer user input information and a separate downstream frequency on which to receive video signals (see Column 5, Lines 26-29 of Ehreth).

Referring to claims 15 and 21, see the rejection of claim 6.

Referring to claim 27, see the rejection of claim 6.

Claim 19 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ho (U.S. Patent No. 6,622,307) in view of Williams (U.S. Patent No. 6,493,873).

Referring to claim 19, Ho discloses all of the limitations of claim 17, but fails to teach further encoding the processed analog signals back into a digital transport stream to transmit to the multiple A/V processors (TV/STB).

The Examiner takes Official Notice to the fact that local video distribution systems can process analog signals back into a digital transport stream to be transmitted over a local area network to multiple TV/STB devices.

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At the time the invention was made, it would have been obvious to a person of ordinary skill in the art, to modify the signal combiner, as taught by Ho, to include a digital encoder to further encode the processed analog signals back into a digital transport stream, as taught by the Examiner's Official Notice, for the purpose of enabling the system to provide a greater number of channels that is a result from encoding more video channels into a digital transport stream as opposed to a single analog channel/frequency.

#### Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jason P. Salce whose telephone number is (571) 272-7301. The examiner can normally be reached on M-F 9am-6pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Miller can be reached on (571) 272-7353. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Jason P Salce/ Primary Examiner, Art Unit 2421

Jason P Salce Primary Examiner Art Unit 2421

May 3, 2010